6th International Conference on Innovation and Emerging Technologies 2026

26-27 November 2026

Faculty of Technology | University of Sri Jayewardenepura

Schedule



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Oral Presentation Schedules

26th November 2026

ORAL PRESENTATIONS

ADIS-2

Artificial Intelligence, Data Science, and Intelligent Information Systems Track

Date: Thursday, 26 November 2026 **Time:** 13:00–16:00 **Venue:** FF02

Track chairs: Dr. Chamara Liyanage | Ms. Hansamali Paul

No.	Paper ID	Title	Authors
1	31	Beyond Handcrafted Features: A Comprehensive Benchmark of Traditional Machine Learning and Efficient Deep Learning Approaches for Age Group Classification	A.K.N. Duminda and Rasika Rajapaksha
2	102	Mitigating Legal Hallucinations in LLMs: An Agentic-RAG and Micro-Knowledge Graph Framework for Sri Lankan Commercial Law	D.C. Perera and C. Hewage
3	103	AI-Enabled Smart Library Management: Automating Catalogue Management and Physical Asset Tracking	J.P.R. Weerasingha and T. Arudchelvam
4	114	Explainable Geospatial Machine Learning for Land Surface Temperature Prediction Using Urban Morphology	A.A.W. Bandaranayake and C. Hewage
5	136	Design and Development of a Mobile GIS-Based Smart Parking Management System: A Prototype Model	H.M.A.H. Indudunu and R.M.K.G.S.P.B. Koswatte
6	137	SLAM/IMU-Driven Intelligent Traffic Automation: A Miniature Platform Proof of Concept (ROS2 & Virtual Simulation Edition)	J.L.A.A. Liyanage and R.M.K.G.S.P.B. Koswatte
7	173	Benchmarking a Multi-View Hybrid Deep Learning Model Against Custom CNN and Transfer Learning Baselines for Knee Anterior Cruciate Ligament Tear Detection	P.H.K.R. Punchihewa and H.M.S.K.B. Herath
8	179	Distinguishing Oscillation from Drift in Low-Precision Neural Network Training	C. Li and H. Mager
9	181	SkillSwap: A Trust-Aware Reciprocal Recommendation Framework for Informal Peer Learning	W.A.S.C.N.D. Ariyarathne and Y. Mathotaarachchi
10	206	AI-Assisted Structural and Functional Characterization of a Putative Copper-Responsive Transcriptional Regulator in the Emerging Pathogen *Leptospira interrogans*	R.B.A.R. Wijayarathna, S.P.N.N. Senadeera, and J.M.D.D. Jayasundara
11	240	An AI-Driven Real-Time Multilingual Parliamentary Transcription Architecture with RMS-Based Audio Segmentation and Chronological Synchronization	A.M.U.E. Alahakoon, D.L.C.P. Liyanage, and C.J. Willoraarachchi

ORAL PRESENTATIONS

BBIS

Biotechnology, Bioengineering, and Industrial Bioprocess Systems Track

Date: Thursday, 26 November 2026 **Time:** 13:00–16:00 **Venue:** FF01

Track chairs: Dr. Sankalya Ambagaspitiya | Dr. Neelaka Molagoda

No.	Paper ID	Title	Authors
1	27	Comparative Evaluation of Sulfur Nanoparticle Synthetic Routes for Durable Antifungal Functionalization of Cotton Fabric	N.S.A. Jayawardhana, J.A.K. Promod, D.C. Manathunga, and N.D. Silva
2	41	Genetic Diversity Analysis of Cardamom (*Elettaria cardamomum*) Selections Using ISSR and RAPD Molecular Markers	S. Balakrishnan, D.G.H.M.K. Dissanayake, and Mapa S.T. Mapa
3	65	Green Synthesis of Zinc Oxide Nanoparticles via Underutilized *Nigella sativa* Seed Residue and Development of a Sunscreen	H.A.M. Jameel, S.M.K.G.K.N.K. Jayarathna, D.C. Manathunga, and W.S.A.A.S. Fernando
4	80	Development of Mycelium-Based Building Materials from *Pleurotus* sp. Utilizing PET Plastic Waste	R.M.F. Ruzeeka Rizan, Anjula S.S. Alahakoon, and A.D.S.N.P. Athukorala
5	105	Characterization and Food Application of Carrageenan Extracted from the Underutilized Red Seaweed *Kappaphycus alvarezii* in Yogurt Development	D.M.N.M. Gunasekara, S. Ambagaspitiya, R.S. Dassanayake, I.U. Kariyawasam, H.D.T.U. Wijerathne, Hyun-Soo Kim, Lei Wang, K.H.I.N.M. Herath, and K.K.A. Sanjeewa
6	108	Effects of *Bacillus* sp. Inoculation on Growth, Nodulation, and Yield in 35S:VlMYBA2 Transgenic Mung Bean	N.V.T. Jayaprada, W.M.K.S.B. Abesekara, S. Geekiyanage, and Meizhen Wang
7	123	In Vitro Evaluation of the Anti-urolithiatic Activity of *Euphorbia thymifolia* L. Against Early Calcium Oxalate Stone Formation	P.G.N.R. Priyantha, T.M.S.G. Tennakoon, and R.S. Dassanayake
8	129	Development of a Transparent Mucoadhesive Herbal Dental Biofilm for Sustainable Oral Health Protection	N.A.I. Nishshanka, E.B.S. Hasanka, D.V.T. Tamitha, T.W.H.H.P. Abeylath, K.N.P. De Silva, and D.A.N.D. Daranagama
9	168	Green Extraction, Evaluation of Phytochemicals, *in vitro* Radical Scavenging Activity and Antioxidant Activities of Aqueous-Glycerol Leaf Extract of *Osbeckia octandra*	R.D. Rathnayake and A.N. Navaratne
10	174	Molecular Basis of Dihydroflavonol 4-reductase Gene for Pericarp Pigmentation Diversity among Sri Lankan Traditional Rice Germplasm	M.D.T.H. Vithanachchi, D.R. Gimhani, D.S. Liyanage, and H.M.B.T.N. Marambage
11	186	Molecular and Morphological Characterization of Star Fruit (*Averrhoa carambola* L.) Germplasm in Sri Lanka Using Simple Sequence Repeat Markers	S.T. Navodya, D.R. Gimhani, and H.M.B.T.N. Marambage
12	227	Variation of Bacteria Strains of Biofloc Culture Systems Developed using Different Inoculant Techniques of Nile Tilapia (*Oreochromis niloticaus*) Cult	S.B.K. Dunusinghe, A.M.A.N. Adikari, and P.P.M. Heenatigala
13	235	Identification of Stress-Responsive Genes and Pathways Associated with Arsenic and Cadmium Toxicity Tolerance in Rice using Meta-Transcriptomic Profiling	S.S.W. Denipitiya, N.S. Kottearachchi, and D.S. Liyanage
14	269	Identify Method for Calculating Density Variation in Municipals Solid Waste Material Heaps	K.A.C.S. Kumarasiri, N.A. Hemali, and K.K.S. Owindi

ORAL PRESENTATIONS

CCGS

Civil Infrastructure, Construction Technologies, and Geotechnical Systems Track

Date: Thursday, 26 November 2026 **Time:** 13:00–16:00 **Venue:** FF08

Track chairs: Dr. J.A. Darshika Wanigarathne | Dr. (Eng). Sankha Widisinghe

No.	Paper ID	Title	Authors
1	61	Development of an Integrated Geospatial Platform for Utility Network Management in Urban Planning: A Case Study of Megoda Kolonnawa GN Division, Sri Lanka	M.K.A.S. Munasinghe and K.D.D.P. Jayasinghe
2	172	Spatial Configuration and Activity Patterns for Sustainable Transformation of a Traditional Coastal Fish Market: A Case Study of Negombo 'Lellama', Sri Lanka	M.S.M. Senarathna and R.U. Halwathura
3	216	GIS-Based Multi-Factor Infrastructure Hazard Assessment along the Southern Expressway (E01) in Sri Lanka	S.P.Y.S. Sasmika and R.M.M. Pradeep
4	245	Experimental and 2D Numerical Evaluation of Shear Strength Parameters of Residual Soils in Welimada Divisional Secretariat, Badulla District, Sri Lanka	Y.A.H.P. Anuradha and Sankha D. Widisinghe
5	256	Self-Healing Infrastructure Systems: A Closed-Loop Framework for Sustainable Lifecycle Maintenance of Civil Assets	N.Z. Nafrin and Y.A. Adikari
6	270	Effect of Ordinary Portland Cement Content and Curing Regime on the Compressive Strength of Rice Husk Ash-Based Hybrid Geopolymer Concrete	G.M.D. Madhushanka, R.A.K.M. Rajapaksha, and M.N.R. Fernando

ORAL PRESENTATIONS

FNPT-1

Food Science, Food Security, Nutrition, and Processing Technologies Track

Date: Thursday, 26 November 2026 **Time:** 13:00–16:00 **Venue:** FF09

Track chairs: Dr. Madhubashini Kumari | Dr. Gayathri de Silva

No.	Paper ID	Title	Authors
1	29	Functional and Microbiological Assessment of Low-Fat Set Yoghurt Fortified with *Arthrospira platensis*	H.D.S.S. Hapuarachchi and Amali U. Alahakoon
2	33	Development and Quality Evaluation of Protein-Rich Plant-Based Functional Sweetened Condensed Milk	S.K. Kahangama, S.M.A.C.U. Senarathne, and K.G.L.R. Jayathunge
3	47	Characterization of Pectin Extracted from Fruit Waste and Its Effect on 3D Food Printing	J.W.A.M. Weerakoon, D.W.M.M.M. Kumari, H.K.B.S. Chamara, and N.E. Wedamulla
4	54	Cytotoxic Potential of Bran Extracts of Twenty-Six Sri Lankan Rice (*Oryza sativa* L.) Varieties against Human Stomach Cancer Cell Line (AGS)	K.N. Deshapriya, W.K.S.M. Abeysekera, W.P.K.M. Abeysekera, S.R. Samarakoon, U. Rajagopalan, D.M.J.B. Senanayake, and G.A.S. Premakumara
5	58	Development and Characterization of a Paper-Based Food Packaging Material from Defatted Rice Bran Powder and Banana Pseudo-Stem Fiber	W.D.C.D. Miyuranga, D.W.M.M.M. Kumari, and H.K.B.S. Chamara
6	73	Comparative Study on the Physicochemical Composition of Fresh Tuna Roe and Its Application in Bottarga Production	R.A.U.J. Marapana and P.T.N. Weerasuriya
7	78	Consumer Awareness and Purchasing Behaviour towards Glycemic Index-Labeled Packaged Rice: Evidence from Kandy District, Sri Lanka	P.K. Abeyrathne, I.V. Kuruppu, and G.M. Somaratne
8	82	Valorization of Underutilized Nut and Fruit Oil Cakes into a Functional Nutrient-Rich Snack Bar	H.B.A. Anuththara, R.A.U.J. Marapana, and G.S.A. Senanayake
9	83	Evaluation of Gamma Irradiation Doses on Microbiological, Physicochemical Attributes, and Aflatoxin Levels of Maize, Peanuts, and Parboiled Rice	A.A.S. Jamsith, W.S.M. Senevirathne, and R.D.R. Ranasinghe
10	92	Effect of Sunlight Exposure on Vitamin C Stability in *Citrus madurensis*	N.M. Fernando, J.K. Walpita, and S. Abeywickrema
11	93	Adsorbent Based Approaches to Optimize Vanilla Flavour Retention in Ceylon Black Tea	M.T. Thathsarani, S.N. Gamage, R.A.U.J. Marapana, J.K. Walpita, and S. Abeywickrema

ORAL PRESENTATIONS

SECT

Sustainable Energy, Environmental Engineering, and Climate Technologies Track

Date: Thursday, 26 November 2026 **Time:** 13:00–16:00 **Venue:** FF04

Track chairs: Dr. A.R. Nihmiya | Dr. Choolaka Hewawasam

No.	Paper ID	Title	Authors
1	53	Development of a Novel Cu-Based Composite Cathode Material for Efficient Energy Storage Devices in Marine Environments	Sumedha R.G. Weliwaththage, E.V.A. Premalal, A.R. Nihmiya, and R.C.L. De Silva
2	59	Identification of Critical Design Parameters Affecting Piezoelectric Energy Harvesting from Jogging Path Applications Using Numerical Simulation	K.K.S. Owindi and N.A. Hemali
3	75	Development of a Bacteria Immobilized Biochar-Based Filter for Textile Wastewater Treatment: A Sustainable Strategy for Waste Valorization and Wastewater Remediation	J.H.K.G. Jayaweera, K.M.P.I. Jayathilake, Pathmalal M. Manage, F.S. Idroos, and K.A. Sirisena
4	85	Fixed-Bed Column Adsorption of Mn^{2+} Using an Iron Oxide-Graphite Oxide-Coated Sand Composite	I.M. Jayalath, P.M.C.J. Bandara, and R. Weerasooriya
5	120	Interfacial Engineering of SnO_2/ZnO Composite Photoanodes through Oleic Acid Co-Adsorption for Enhanced Dye-Sensitized Solar Cells	S.L.M.D.K.V. Samarathunga, R.M.T.T.B. Samarakoon, T.M.W.J. Bandara, G.R.A. Kumara, and K.D.M.S.P.K. Kumarasinghe
6	128	GIS-Based Multi-Criteria Analysis for Offshore Wind Energy Site Prioritization in Sri Lanka	J.M.J. Prabhasaree, W.A.A.P. Wijesundara, B.W.A. Bulathgama, and S. Udagedara
7	155	Evaluating Photocatalytic Dye Degradation and Antibacterial Potentials of Starch-CuO Nanocomposite	P.A.M. Fernando and R.M.A.S. Rathnayake
8	162	Biochar Derived from *Dillenia suffruticosa* for Sustainable Removal of Cd(II) from Aqueous Solution	U.P. Anuradha and N. Priyantha
9	165	Corrosion Inhibition of Mild Steel with Indian Almond (*Terminalia catappa*) Leaf in H_3PO_4	T.S. Kumara and N. Priyantha
10	170	Effect of Acid Modification on the Kinetics and Intra-Particle Diffusion of Congo Red Adsorption by *Panicum maximum*	C. Manujaya and N. Priyantha
11	178	Feasibility Study of Biogas Generation from Sludge at a Local Wastewater Treatment Plant in Sri Lanka: A Biochemical Methane Potential Study	W.A.E. Soysa, P.A. Koliyabandara, and D.T. Jayawardana
12	202	Effect of Struvite Precipitation Pretreatment on Cow Manure Wastewater Treatment in Anaerobic Sequencing Batch Reactor Operation	E.A.D.H. Nipunika, M.C.V. Nirindi, E.M.C.L. Ekanayake, and P.G. Rathnasiri
13	242	Comparative Photovoltaic and LPG Gas-Sensing Performance of Optimized MgO Mass-Modified and Surface-Treated TiO_2/CdS Nanostructures	N.F. Ajward, J.V.P. Fernando, and V.P.S. Perera
14	258	Electrical Double-Layer Supercapacitor Based on a Hemp Activated Carbon Electrode and THT Ionic Liquid with Improved Electrochemical Performance	S.P.K. Idusara, Sumedha R.G. Weliwaththaga, and E.V.A. Premalal

Oral Presentation Schedules

27th November 2026

ORAL PRESENTATIONS

APIT-1

Advanced Materials, Process Engineering, and Industrial Technologies Track

Date: Friday, 27 November 2026 **Time:** 09:00–11:00 **Venue:** FF01

Track chairs: Dr. Suranga M. Rajapaksha | Dr. Gayan Siriwardhana

No.	Paper ID	Title	Authors
1	116	Effect of Printed Ink Contamination on the Melt Flow Behaviour and Colour Stability of Recycled Poly(Vinyl Chloride) from Blister Packaging	T.A.R.W.M.M.C.G. Bandara, S.M. Rajapaksha, A.A.G.K. Siriwardana, A.H.L.R. Nilmini, and A.A.G.A. Abeygunawardane
2	122	Development of 3D Printable Polylactic Acid/Spandex Waste Composite Material for Semi-Flexible Orthotic Shells	M.A.K.J. Madurasinghe, U.G.E. Umayanga, and A.A.G.K. Siriwardana
3	124	Optimization of Carbon Black Incorporation in Natural Rubber Latex for Enhanced Filler Dispersion and Reinforcement	Piumi Kalpana Gunasoma, A.A.G.K. Siriwardana, S.M. Rajapaksha, A.H.L.R. Nilmini, and Asangi Gannoruwa
4	125	Polylactic Acid/Polyethylene Glycol/Cellulose Nanocrystal-Based Composite for a 4D Printed Thermo-Responsive Gripper System	U.G.E. Umayanga and A.A.G.K. Siriwardana
5	127	Development of a Sustainable and Lightweight Acrylonitrile Butadiene Styrene/Coconut Husk Fiber-Based Composite for 3D Printed Automobile Interior Panel	M.S.N. Fernando and A.A.G.K Siriwardana
6	133	Preparation and Characterization of Electrostatic Discharge Safe Polypropylene Composites	N.P.N.D. Nawarathna and S.M. Rajapaksha
7	139	Synthesis of Aluminum Hydroxide from Waste Beer Cans as a Sustainable Flame-Retardant Filler for Natural Rubber Composites	N.S. Weerathunga, and S.M. Rajapaksha
8	144	Development of 3D Printable Polylactic Acid/Corn Husk Fiber Biocomposites for Sustainable Interior Thermal Insulation Panels	W.A.T.B.M. Wijesuriya and A.A.G.K. Siriwardana
9	147	3D Printable Polylactic Acid/*Coscinium fenestratum*-Based Antimicrobial Composite for Food Packaging Applications	W.T.M. Nawarathna and A.A.G.K Siriwardana
10	192	Development of a Sustainable Plant Tray Using Reclaim Rubber and Coir Fiber Waste	R.T. Sandeepan and S.M. Rajapaksha
11	232	Mechanochemical Devulcanization of Compounded Natural Rubber Latex Waste for Rubber Floor Mat Applications	P.P. Wickramasinghe and S.M. Rajapaksha
12	252	Development of Thermally Efficient and Sustainable Cement Plaster Using Biochar and Glass Powder	S.M.D.N. Kumbukdeniya and R.A.K.M. Rajapaksha

ORAL PRESENTATIONS

APIT-2

Advanced Materials, Process Engineering, and Industrial Technologies Track

Date: Friday, 27 November 2026 **Time:** 09:00–11:00 **Venue:** FF02

Track chairs: Dr. Suranga M. Rajapaksha | Dr. Gayan Siriwardhana

No.	Paper ID	Title	Authors
1	42	Effect of Deformation Temperature on Tensile Behaviour, Strain-Induced Martensitic Transformation and Texture Evolution in AISI 304 Stainless Steel	A.G.M. Azaam, Hitarth Maharaja, and Sushil K. Mishra
2	48	A Molecular Dynamics Study of Temperature-Induced Morphological Effects on Conductance in p-Type CuO Nanoparticle	M.S.V. Madampage, L.S.I. Liyanage, W.P.M. Pathirana, and W.G.C. Kumarage
3	106	Development of *Chrysopogon zizanioides*-Incorporated Natural Rubber Latex Foam Insoles with Antimicrobial and Odor-Control Properties	Kavishka Wijegunasinghe, Sankalya Ambagaspitiya, and Asangi Gannoruwa
4	110	Cassava (*Manihot esculenta*) Polystarch-Filled Natural Rubber Latex for Sustainable Glove Applications	E.K.H. Sandeepa and Asangi Gannoruwa
5	143	Biochar-Amended Clay Tiles for Enhanced Carbon Sequestration, Thermal Insulation, and Heavy Metal Removal	M.N.R. Fernando and R.A.K.M. Rajapaksha
6	154	Optimisation of Citric Acid Cross-Linking Concentration for Enhanced Thermal Stability and Mechanical Performance of Carrageenan-Based Biodegradable Films	D.M.K. Hansika, T.D.M. Gimhani, A.A.P.M. Amarasinghe, D.C. Manatunga, and H.W.K.S.L. Kumara
7	164	Effect of Compound Maturation Time on the Physicochemical Properties of Carboxylated Nitrile Butadiene Rubber Latex Gloves	G.D.H.N. Weerananda, R.S. Dassanayake, J.M.A.R.B. Jayasinghe, and P.D.S. Kulathilaka
8	167	Natural Indigo from *Indigofera tinctoria* as an Eco-Friendly Alternative Pigment in Natural Rubber Compounds	B.P. Wijerathna, R.N. Wijesena, and G. Priyadarshana
9	194	Development and Characterization of Tampico Fiber Waste-Reinforced Polypropylene Composites Using Maleic Anhydride Grafted Polypropylene as a Coupling Agent	R.A.G.B.M.P. Rupasinghe, R.N. Wijesena, and G. Priyadarshana
10	221	Monoclinic ZrO_2 Nanoparticles Functionalised with Methyltriethoxysilane for Enhanced Anti-scratch Nanocoating Applications	W.A.D.N. Monarawila, V.G.C. Samanmali, and M.M.M.G.P.G. Mantilaka
11	229	Comparative Electrochemical Impedance Spectroscopy Investigation of Grade 202 Stainless Steel in Cl^- Rich Media Using Equivalent Electrical Circuit Analysis	D.T. Kodisinghe and N. Priyantha
12	238	Development of Sustainable Composites from Cellular Rubber and Spandex Textile Wastes for Non-Structural Flooring Applications	K.D.K. Nishadi and A.H.L.R. Nilmini

ORAL PRESENTATIONS

CCIT

Communication Networks, Cyber-Physical Systems, and Interactive Technologies Track

Date: Friday, 27 November 2026 **Time:** 12:30–14:30 **Venue:** FF04

Track chairs: Dr. Nuwan Kuruwitaarachchi | Dr. A.A.M. Matheeh

No.	Paper ID	Title	Authors
1	16	A Machine Learning Approach to Detecting SIP-Based Attacks in VoIP Networks: A Comparative Evaluation against Signature-Based Detection Using Cisco CUCM and Asterisk	Asad Akbar and N. Kuruwitaarachchi
2	183	Explainable AI-Driven Banking Transaction Analytics for Sustainable Digital Transformation in Financial Services	S. Kamsitha, S. Nimshi, and N. Pratheesh
3	237	Intelligent LTE Band Recommendation Using Crowdsourced Spatio-Temporal Analysis in Sri Lanka	K.G.N. Amanda, J.K.S. Uthpala, M.A.K. Akalanka, H.M.S.C.R. Heenkenda, and D.A.N.T. Perera

ORAL PRESENTATIONS

FNPT-2

Food Science, Food Security, Nutrition, and Processing Technologies Track

Date: Friday, 27 November 2026 **Time:** 09:00–11:00 **Venue:** FF08

Track chairs: Dr. Madhubashini Kumari | Dr. Gayathri de Silva

No.	Paper ID	Title	Authors
1	94	Association of Texture-Specific Sensitivities with Energy and Macronutrient Intake	S.N. Gamage, M.T. Thathsarani, N.M. Fernando, and S. Abeywickrema
2	95	Optimization of Soaking Time through Hydration Modelling and Its Impact on Cooking and the Texture Profile Quality of CIC White Basmati	S.H.I.S Gunasiri, Champika Liyanage, Rumesh Liyanage, Amali U. Alahakoon, and Udayagee Kumarasinghe
3	99	Formulation and Quality Evaluation of Palmyrah (*Borassus flabellifer*) Sprout Flour Incorporated Tart Shells	T.S.A.B.P. De Silva, N.K.N.M. Karunarathne, K.L.M.D. Liyanage, P.M.T.N. Palansooriya, D.R.M.R.P. Wijerathne, and K.H.I.N.M. Herath
4	111	Formulation and Storage Stability of a Clean-Label Probiotic Stirred Yogurt for Toddlers	U.K.P. Madhurekha, G.M. Somaratne, J.K. Vidanarachchi, D.C.S. Gunasekara, H.M.Y.T. Chandrasiri, I.N. Jayawardene, and G.C. Maduwanthi
5	138	Development and Characterization of Whey Protein-Based Nano-Encapsulated Medicinal Herb Extracts for Functional Dairy Applications	H.K. Kumari, Niluni M. Wijesundara, Rumesh Liyanage, Ranil Coorey, and Amali U. Alahakoon
6	153	Development of pH-Responsive, Edible Alginate/Guar Gum-Butterfly Pea Anthocyanin (*Clitoria ternatea* L.) Film for Non-Contact Monitoring of Meat and Fish Freshness	G.H.P. Ganegoda, Danushika C. Manatunga, K.K. Asanka Sanjeewa, K.G.L.R. Jayathunge, A.H.L.R. Nilmini, and Rohan S. Dassanayake
7	160	Potential of Sri Lankan Canistel (*Pouteria campechiana*) Fruit Powder as a Functional Ingredient for Value Addition of Turkish Delight, a Flour-Based Confectionary	V.G.P. Maheshi and W.L.I. Wijesekara
8	161	Nutritional, Functional, and Antioxidant Characterization of *Ficus racemosa* Powder for Functional Food Applications	T.M. Perera and W.L.I. Wijesekara
9	184	Development of Sustainable Packaging Liners Using Paddy Straw, Guinea Grass, and Charcoal for Export Bananas	J.K.W.N. Subashini, C.K.A.S. Kumararathna, E.T. Muthukumari, M.P.M.S. Pabasari, D.M.H.P. Sathsarani, G.G.S. Shashikala, and L.H.N. De Silva
10	188	Designing and Evaluating a Portable Mini Milk Cooler to Maintain the Quality of Raw Cow's Milk	M.R. Pahasara, R.M.S.D. Wijayanama, and C.M. Senanayake
11	198	Perceived Microbial Risks and Food Hygiene Behaviors among University Students in Colombo District, Sri Lanka	C.M. Rathnayaka and S. Wijewarna

ORAL PRESENTATIONS

FNPT-3

Food Science, Food Security, Nutrition, and Processing Technologies Track

Date: Friday, 27 November 2026 **Time:** 09:00–11:00 **Venue:** FF09

Track chairs: Dr. Madhubashini Kumari | Dr. Gayathri de Silva

No.	Paper ID	Title	Authors
1	200	Vitamin B and E Profiles of *Oryza nivara*: A Wild Rice Species in Sri Lanka	H.D. Thakshila Soysa, M.D.W. Samaranayake, W.K.S.M. Abeysekera, W.P.K.M. Abeysekera, T.M.S.A. Tennakoon, and Disna Ratnasekeara
2	201	Evaluation of the Adoption Level of Food Hygienic Practices among Street Food Vendors in the Kandy District, Sri Lanka	N.M. Hettipathirana, W.G.S. Madubhashini, D.K.M.C.S. Pooliyadda, W.E.M.H.P. Ekanayake, and L. Udayanga
3	203	Investigation of the Potential of Developing Frozen Coconut Milk Cubes Incorporated with Ginger Extract and Guar Gum	W.V.R.B. Sahasravithana, P.C. Bandara, and J.M.K. Prasangika
4	212	Sustainable Yoghurt Packaging: *Areca catechu* Sheath as a Biodegradable Alternative to Plastic	H.A.P.M. Hettiarachchi and S.M.A.A. Senevirathna
5	217	Comparative Evaluation of BOP and BOPF Black Teas from Major Tea-Growing Regions of Sri Lanka: Physicochemical Properties and Antioxidant Activity	P.G.L.I.N. Sandarenu, K.M.H. Sandamali, B.A.S.O. Perera, and D.S.W. Rajapaksha
6	219	Syneresis in Traditional Sri Lankan Rice-Based Gels for 3D Food Printing: Effects of Variety, Gelatinization Temperature, and Concentration	S.S. Jayasinghe, N.E. Wedamulla, H.K.B.S. Chamara, M. Gamage, and D.W.M.M.M. Kumari
7	226	Development and Quality Evaluation of Vanilla Swiss Roll Sponge for Export Markets	T.M.H.L.B Thennakoon, C. Perera, S.N. Galagedara, and P.C. Bandara
8	231	Evaluation of Extraction Conditions to Isolate Bioactive Compounds from Oil Palm (*Elaeis guineensis*) Fruit Mesocarp	B.S.N. Mendis, M.J.M.S. Kurera, D.R. Gimhani, T.P.H.P. Indrasiri, and P.G.S.C. Ariyarathna
9	233	Development and Characterization of Cheesy Flavored Croutons as Value Added Soup Snacks for Supermarket Retail	H.M.I.N. Nandasena, K.G.L.R. Jayathunge, C. Perera, and S.N. Galagedara
10	259	Powder Characterization of Spray-Dried Soy-Based Beverage Incorporated with Mango Nectar using Maltodextrin as a Carrier Agent	K.L.A. Chamoda, H.B.K.S. Chamara, S. Senadheera, H. Weerakoon, G.L.R. Liyanage, D.M.S.S. Daundasekara, D.S. Ariyarathna, Gayathri De Silva, and D.W.M.M.M. Kumar

ORAL PRESENTATIONS

MRAE

Mechatronics, Robotics, Automotive, and Autonomous Systems Engineering Track

Date: Friday, 27 November 2026 **Time:** 12:30–14:30 **Venue:** FF11

Track chairs: Dr. Buddhika Amila | Mr. Pahan Oruthota

No.	Paper ID	Title	Authors
1	18	Development of an Electronic Thermostat and a Radiator Cap for Internal Combustion Engines	K.G.D. Priyasankha, K.V.D.U.S. Gunawardhana, and H.R. Jayetileke
2	49	Development of a Remote-Controlled Steering Mechanism for a BAJAJ Three-Wheeled Vehicle	N.D. Ekanayaka and K.A.H. Induwara
3	76	Automated Gear Shifting System for Bajaj Three Wheeled Vehicle	K.R.L. Sampath and S.A.S.L. Chandrasiri
4	96	NurBo: A Modular Cyber Physical Robot for Patient Monitoring and Healthcare Data Management	Dilanka P. Wijesena and Damitha N. Premalal
5	97	MedConnect: A Cloud-Integrated IoT Based Real Time Remote Patient Monitoring System	Dilanka P. Wijesena and D.N. Vithanawasam
6	222	Smart Hand Control System for Lower-Limb Disabled Drivers	W.L.D.D.Y. Wijethunge and R.M.A.S. Rasnayaka
7	239	Design and Experimental Evaluation of a CMG-Based Self Balancing Two Wheeled Vehicle	W.C.M. Somawardhana and S. Saruban
8	250	Cloud-Integrated Automated Pharmacy Item Dispensing System with Nearest Neighbor-Based Retrieval Optimization	U.G.S.D. Wijesiri, W.G.L. Deshan, W.H.P. Sampath, and A.H. Wijethunga

ORAL PRESENTATIONS

SSAT

Sustainable and Smart Agricultural Technologies Track

Date: Friday, 27 November 2026 **Time:** 12:30–14:30 **Venue:** FF12

Track chairs: Dr. Udayagee Kumarasinghe | Dr. Ruvini Abhayapala

No.	Paper ID	Title	Authors
1	8	Effects of Organic Amendments and their Water Repellency Levels on Formation of Soil Aggregate Size Fractions in Finger Millet (*Eleusine coracana*) Cultivated Soil	I.S. Wijeysingha, D.A.L. Leelamanie, and T.D.P. Liyanage
2	30	Development of a Novel *Bacillus-Aspergillus* Microbial Consortium Biofertilizer Spray for Sustainable Plant Growth Promotion	K.M.P.I. Jayathilake, Pathmalal M. Manage, and F.S. Idroos
3	34	Development of a KOH-Activated Pond Apple-Derived Biochar Filter System for Aquaculture Wastewater Treatment: A Dual-Benefit Approach to Biomass Valorization and Water Purification	K.M.P.I. Jayathilake, B.P.R. Ravishani, M.P.J.R. Nimalarathna, Pathmalal M. Manage, and F.S. Idroos
4	118	Evaluation of Selected Hybrid Maize (*Zea mays* L.) Varieties for Yield-Related Traits and Post-Harvest Quality in Green Cob Production in Sri Lanka	U.W.D.A.G.N. Rathnayaka, M.G.P.B. Jayasundara, H.H.L. Wasana, and P.U.N.E. Srimali
5	141	Comparative Evaluation of Wet-Extracted Arrowroot Starch and Dry-Processed Arrowroot Powder as Low-Cost Gelling Agents for *in vitro* Propagation of *Dendrobium Sonia*	B.M. Nisansala, K.K.A. Sanjeewa, L. Wang, K.H.I.N.M. Herath, and K.M.R.D. Abhayapala
6	142	From Biomass to Bioplastic: Assessing the Potential of Lotus (*Nelumbo nucifera*) Leaf for Sustainable Packaging Applications	M.V.S. Perera and Pabasari A. Koliyabandara
7	149	Development and Optimization of a Seed-Based *in vitro* Propagation Protocol for the Conservation of the Endangered Orchid *Aerangis hologlottis* (Schltr.) Schltr.	H.M.T.V. Bandara, R.D. Abhayapala, Achala Attanayake, and Ruwini Karunarathna
8	159	Evaluation of a Proposed NPK Fertilizer Schedule for Enhanced Growth and Yield of Salad Cucumber (*Cucumis sativus* L.) under Protected Cultivation Systems	A.M.K.L. Jaysingha, D.R. Kanchana, and P.U.N.E. Srimali
9	177	Effect of Magnetically Treated Water on Growth, Yield, and Fruit Quality of Tomato (*Solanum lycopersicum* L.) under Controlled Environmental Conditions	K.L.L. Sankalpa, K.M.R.D. Abhayapala, A.A.L.C. Perera, and W.R.D. Wimaladharma
10	208	Effect of Spent Coir Dust Mulch Thickness on the Growth, Yield, and Fruit Quality of Chilli (*Capsicum annuum* L.) under Open-Field Conditions	T.Y. Achira Abhilasha, J.A. Surani Chathurika, and K.M.R.D. Abhayapala

ORAL PRESENTATIONS

TEEM

Technology Innovation, Education, and Engineering Management Track

Date: Friday, 27 November 2026 **Time:** 09:00–11:00 **Venue:** FF04

Track chairs: Dr. Chami Patabadige | Dr. Eranga Jayasekara

No.	Paper ID	Title	Authors
1	7	Impact of Remote-Work Autonomy on Job Satisfaction in Sri Lanka's Software Industry	M.A.A. Indika, W.A.S. Peiris, and D. Herath
2	11	Strategic Decision Intelligence in Telecommunications: Business Sensed Multi-Objective Optimization for Ethical Telecom Strategy	M.C.M. Dias, D.N.N. Fernando, and R.M.P.M.D. Rathnayake
3	44	Digital Banking Analytics and Sustainable Competitive Advantage: Investigating the Mediating Role of Green Innovation and the Moderating Role of Digital Transformation Capability	A. Sujeekaran
4	104	A Rule Based Static Analysis Approach for Privacy Vulnerability Detection in Software Development	I.N. Madhushanie, S.M. Vidanagamachchi, and I.D. Madhushan
5	180	Artificial Intelligence Usage, Academic Performance, and Research Productivity among Sri Lankan Management Undergraduates	W.V. Perera, G. Maneka, and C. Janathanan
6	185	Development and Evaluation of a Botanical Insecticide Formulated from Citronella, Lemongrass, Cinnamon Leaf, and Neem Oils against Mealybugs	M.A.T.H. Jayathilaka, K.M. Abeysekara, and H.Weerathunga
7	262	The Impact of Technological Change on Workforce Resilience among the IT workers in Sri Lanka: The Mediating Role of Employee Learning	N. Jasintha

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Poster Presentation Schedules

26th November 2026

POSTER PRESENTATIONS

ADIS-1

Artificial Intelligence, Data Science, and Intelligent Information Systems Track

Date: Thursday, 26 November 2026 **Time:** 11:30–13:00 **Venue:** FF05

Track chairs: Dr. Chamara Liyanage | Ms. Hansamali Paul

No.	Paper ID	Title	Authors
1	21	Threshold Selection for Low Popularity Scores of Recent Releases in Multi-Platform Music Genre Data	W.A.M. Prabuddhi, S.C. Premarathne, and P.K.S.C. Jayasinghe
2	63	A Comparative Machine Learning Approach for Predicting Candidate Selection Through Resume Screening	B.M.I. Subodhini and R.A.H.M. Rupasingha
3	64	AI-Assisted Dynamic Question Paper Generation and Secure Examination Framework	S. Aseela Maryam
4	71	Tiny Machine Learning-Based Edge Vision for Privacy-Preserving Smart Access Control	S.V.G.P.Y. Bashitha, L. Malith M. De Silva, P.R.S. Tissera, M.S. Wanigarathne, and W.T.L.S. Fernando
5	91	OntoCare: An Ontology-Driven Multi-Agent Framework for Context-Aware Clinical Decision Support	Priyantha Kumarawadu
6	113	Context-Aware Multimodal Framework for Tomato Disease Classification and Vision-Language Recommendation	S. Sivoshan, U. Rakshika, and R. Thisakaran
7	119	Real-Time Lecture Note Generation with Evidence-Based Verification: A Multi-Agent System and Preliminary Evaluation	S. Sivoshana, U. Rakshika, and R. Thisakaran
8	131	MADE: Personality-Based Memory Decay for AI Agents	M.N.R. Fernando and T. Wickramasinghe
9	148	AI-Based Phishing Detection Using Hybrid Machine Learning and Explainable AI	A.C. Jayasekara and I.N. Madhushani

POSTER PRESENTATIONS

ADIS-2

Artificial Intelligence, Data Science, and Intelligent Information Systems Track

Date: Thursday, 26 November 2026 **Time:** 14:00–15:30 **Venue:** FF05

Track chairs: Dr. Chamara Liyanage | Ms. Hansamali Paul

No.	Paper ID	Title	Authors
1	182	RankCtx: A Leakage-Safe Evaluation of Learned Cross-Function Context Retrieval for Repository-Level Vulnerability Detection	B.L. Yesmi Ranujana and D.H. Chaami
2	205	Predicting Student Performance Using Machine Learning: An Ensemble Approach for Early Intervention	P.H.P. Thamasha
3	211	Geospatial Machine Learning For Urban Livability Assessment: Leveraging Road Network Morphology and Explainable AI	G. Lavanya and V. Sujatha
4	213	AI-Powered Work Distribution for Enhancing Employee Productivity and Wellbeing	S.P. Muthukuda Arachchi, L. Weerasinghe, M. Edirisinghe, and J.H.M.S. Gunarathne
5	241	Explainable Human-in-the-Loop Detection of Gradually Escalating Online Abuse in Conversation Streams: A Proof of Concept for Digital Forensics	G. Gunarathna
6	244	AI-Powered Cross-Allergen Detection System Using Skin Prick Test Reports	D.I.R. Noragal, K.N.Y. Wimalananda, W.A.K. Nirmani, and T.D. Samarasinghe

POSTER PRESENTATIONS

APIT

Advanced Materials, Process Engineering, and Industrial Technologies Track

Date: Thursday, 26 November 2026 **Time:** 11:30–13:00 **Venue:** FF06

Track chairs: Dr. Suranga M. Rajapaksha | Dr. Gayan Siriwardhana

No.	Paper ID	Title	Authors
1	130	Development of Recycled HDPE Composites Incorporating Waste Glass Powder	M.K.J. Chanika, P.A. Koliyabandara, and A.A.G.K. Siriwardana
2	132	Optimizing the Precursor Gel Aging for the Crystallization of Kaolin-Derived Zeolite Y	A.M. Hasara, I.P.L. Jayarathne, W.M.A.T. Bandara, and M.B. Wijesinghe
3	246	Physicochemical Characterization of Hydrothermal D-Glucose-Derived Nanomaterials for Potential Energy-Storage Applications	A.M.S.H.B. Wijayasundara, S.D.A. Sandanayaka, and S. Malavipathirana
4	255	pH-Responsive Functionalization of Cotton Fabric with Curcumin and Anthocyanin-Loaded Chitosan Nanoparticles	U.L. Dahanayake and S.P.A.U.K. Samarakoon

POSTER PRESENTATIONS

CCGS

Civil Infrastructure, Construction Technologies, and Geotechnical Systems Track

Date: Thursday, 26 November 2026 **Time:** 14:00–15:30 **Venue:** FF06

Track chairs: Dr. J.A. Darshika Wanigarathne | Dr. (Eng). Sankha Widisinghe

No.	Paper ID	Title	Authors
1	257	Digital Product Passports for Civil Infrastructure: Enabling Lifecycle Traceability and Circular Construction Management	N.Z. Nafrin and Y.A. Adikari
2	260	A Fourteen-Layer Digital Twin Framework for Predictive Civil Infrastructure Asset Management	N.Z. Nafrin and M.A.P. Madanasinghe

POSTER PRESENTATIONS

SECT

Sustainable Energy, Environmental Engineering, and Climate Technologies Track

Date: Thursday, 26 November 2026 **Time:** 14:00–15:30 **Venue:** FF07

Track chairs: Dr. A.R. Nihmiya | Dr. Choolaka Hewawasam

No.	Paper ID	Title	Authors
1	14	Technical Expertise as a Catalyst for Eco-Industrial Park Development: Evidence from Public Sector Technical Officers in Sri Lanka	H.G.T.P. Samarawickrama, C.L. Liyanage, D.M.S.H.K. Ranasinghe, and K.P.P. Udayagee
2	57	Infrastructuring Local Civic Committees for Sustainable Air-Quality Citizen Observatories in Sri Lanka	C. Rathnayake
3	135	Designing a Green Information System to Promote Sustainable Purchasing Intention Through a Pre-Owned Online Clothing Platform in Sri Lanka	K.S. Zavier and R.W.M.R. Dharani Rajasinghe
4	146	Development of Cost-Effective Biodegradable Packaging Material Using Corn Husk for Sustainable Waste Management	U.G.L. Gimhani, W.M.R.B. Weerasekara, and S.M.P.A. Koliyabandara
5	151	Influence of Catholyte on Wastewater Treatment and Bioelectricity Generation in Dual-Chamber Microbial Fuel Cells	G.K.K. Ishara, S.M.P.A. Koliyabandara, A.R. Nihmiya, S.P.R. Udara Arachchige, and Pathmalal M. Manage
6	163	Eppawala Apatite-Derived Hydroxyapatite Nanoparticles for Pb(II) Removal from Aqueous Solution: Characterization and Adsorption Kinetics	W.M.C.I. Wijebahu and R.M.G. Rajapakse
7	204	Machine Learning-Based Prediction of Optimal Photovoltaic Cleaning Using Aerosol Deposition and Atmospheric Parameters	G.G.S.V. Kalhara, G.G.T.M. Karunathilaka, K.A.N. Nimsara, T. Sajarupan, A. Kunaraj, and R.K. Amal
8	215	Design and Analysis of Hybrid Renewable Energy System for Off-Grid Rural Electrification	C. Kethes, K. Kajanthini, and W.B.D.M.R.K. Dissanayaka

Poster Presentation Schedules

27th November 2026

POSTER PRESENTATIONS

BBIS-1

Biotechnology, Bioengineering, and Industrial Bioprocess Systems Track

Date: Friday, 27 November 2026 **Time:** 09:00–10:30 **Venue:** FF06

Track chairs: Dr. Sankalya Ambagaspitiya | Dr. Neelaka Molagoda

No.	Paper ID	Title	Authors
1	60	Formulation of a Natural, Water-Resistant Mosquito-Repellent Balm from Ghee, Orange Peels, and Beeswax	W.D. Vidushika, N.K.N. Weerathilaka, K.M.S.M. Thilakarathna, T.A.T.M. Tennakoon, N.W.K. Madhubashini, I.C. Jayasinghe, and T.N. Dharmapriya
2	86	Bioethics Education Exposure and Ethical Attitudes Toward Human Gene Editing among Science Undergraduates in Colombo District, Sri Lanka	S.D. Munasinghe and S. Wijewarna
3	101	Analysis of Motion-Induced Errors in 3D Image Registration for Biomedical Navigation Systems	J.J. Jeboshan and R.M.D.S. Rasnayake
4	166	Electrochemical Investigation of Metronidazole Using Cyclic Voltammetry	D.D.S.B. Wijerathna and A.N. Navaratne
5	187	Harnessing Epiphytic Yeast from *Spondias dulcis* (Ambarella): Molecular Characterization and Fermentative Capabilities	O.V. Hettithanthrige, S.A. Mummullage, T.C. Serasinghe, L.M. Vincent, H.M. Shafqat, G.J.B. Arachchi, S.N. Fernando, D.T. Suriyaarachchi, D. Pavalakumar, P.A. Sewwandi, and R.B.N. Dharmasiri
6	210	*In Silico* Identification of Potential Phytochemicals Targeting *Podosphaera xanthii* Causing Cucumber Powdery Mildew	M.T.F. Thaheera, D.R. Gimhani, and D.S. Liyanage

POSTER PRESENTATIONS

BBIS-2

Biotechnology, Bioengineering, and Industrial Bioprocess Systems Track

Date: Friday, 27 November 2026 **Time:** 11:00–12:30 **Venue:** FF06

Track chairs: Dr. Sankalya Ambagaspitiya | Dr. Neelaka Molagoda

No.	Paper ID	Title	Authors
1	224	Integrated Assessment of Morphological Diversity, Seed Protein Profiles, and Allelic Variation in the Drought-Responsive COR47 Gene of Sri Lankan Foxtail Millet (*Setaria italica*) Landraces	M.A.H.I.M. Perera, U.D.G.S. Gunawardana, D.A.R.C.N. Jayathissa, D.R. Gimhani, M.J.M.S. Kurera, D.S. Liyanage, S.A.E.C. Wijesinghe, N.S. Kottearachchi, D.C.M.S.I. Wijewardana, and V.H.B.S. Somasiri
2	236	Comparison of Hot Water, Ethanol, and Methanol Extraction Conditions for Recovering Phytochemicals from Dried Fruit Rinds of Endemic *Garcinia quaesita* Pierre	T.P.H.P. Indrasiri, D.R. Gimhani, M.J.M.S. Kurera, and B.S.N. Mendis
3	267	Development of Natural Fabric Dye from *Lemnaceae* for Textile Application	R.R.H. Perera, N.A. Hemali, and K.K.S. Owindi
4	268	Development and Comparative Evaluation of Eco-Friendly Biodegradable Paper from Agricultural Waste Residues and Recycled Paper Pulp	W.M.C.L. Wanigasekara, N.A. Hemali, and K.K.S. Owindi
5	271	Disruption of Bone Homeostasis by Bisphenol A through Retinoic Acid-Related Orphan Receptor α Activation	W.A.H.M. Karunarathne and G.Y. Kim
6	272	*Tagetes erecta* L. Flower Extract and Its Bioactive Flavonoids Attenuate Osteoporosis by Targeting the Wnt/β-Catenin Signaling	J. Park and G.Y. Kim

POSTER PRESENTATIONS

CCIT

Communication Networks, Cyber-Physical Systems, and Interactive Technologies Track

Date: Friday, 27 November 2026 **Time:** 11:00–12:30 **Venue:** FF05

Track chairs: Dr. Nuwan Kuruwitaarachchi | Dr. A.A.M. Matheeh

No.	Paper ID	Title	Authors
1	12	Keeping Customers and Managers Informed during IT Incidents: A Business Process Engineering Approach	G.D.N. Gamage, J.N.N. Jayaweera, and T.M.D.N.K. Bandara

POSTER PRESENTATIONS

FNPT-1

Food Science, Food Security, Nutrition, and Processing Technologies Track

Date: Friday, 27 November 2026 **Time:** 09:00–10:30 **Venue:** FF07

Track chairs: Dr. Madhubashini Kumari | Dr. Gayathri de Silva

No.	Paper ID	Title	Authors
1	09	Development and Quality Assessment of a Ginger Bugs Based Naturally Carbonated Fermented Beverage	W.A.T.S. Sumithrarathna and K.G.L.R. Jayathunge
2	23	Impact of Farm-Level Hygienic Practices on Selected Milk Quality Parameters in Sri Lankan Dairy Sector	A.A.A.U. Aberathna, C.M. Nanayakkara, and D.U. Rajawardana
3	26	Awareness, Perceived Comprehension, and Food Purchasing Behaviors Related to Nutritional Labelling among University Students	G.S. Gunasingha, L.D.T. Thenuwan, R.G.N.S. Rambukanga, S.G.K.S. Rankothge, D.M.Y.S. Dissanayaka, H.D.S.R. Sathnidu, M.P.N. Asalika, H.G.K.D. Indralal, R.S. Akshana, and K.M.S.A.K. Dehideniya
4	50	Physicochemical Profiling of Black Tea under Different Kombucha Processing Conditions	R.A.U.J. Marapana and T.A.D.I.P. Chandrarathne
5	52	Green Synthesized Silver Nanoparticles Infused Active Food Packaging Films for Extending the Shelf Life of Curd	W.H.J.M. Kaushani, A.P.H.I. Abeysuriya, and D.N. Amarasinghe Arachchi
6	72	Effect of Chlorine Concentration in Screw Chiller Water on Physicochemical Quality and Microbial Safety in Broiler Meat	K.M.V. Prabani and D.M.A. Gunaratne
7	77	Development and Characterization of a Value-Added Pumpkin-Based Snack	R.L. Amasha, R.A.U.J. Marapana, and G.S.A. Senanayake
8	79	Knowledge, Attitudes, and Practices Regarding Unsaturated Fatty Acid-Rich Food Consumption among Working Adults in Pannala Area, Kurunegala District	S.M. Dilushi, T.K. Hirimuthugodage, D.S. Perera, and T.U.S. Peiris

POSTER PRESENTATIONS

FNPT-2

Food Science, Food Security, Nutrition, and Processing Technologies Track

Date: Friday, 27 November 2026 **Time:** 11:00–12:30 **Venue:** FF07

Track chairs: Dr. Madhubashini Kumari | Dr. Gayathri de Silva

No.	Paper ID	Title	Authors
1	84	Development of an Antioxidant-Enriched Vitamin C Tablet Using Concentrated Pomelo (*Citrus maxima*) Juice	M.G.P. Chiranthi and R.A.U.J. Marapana
2	126	Nut-Free Indulgence: Formulation and Quality Evaluation of Cocoa Powder-Infused Pumpkin (*Cucurbita pepo*) Seed Butter	A.G.S.P. Ambagaspitiya, A.H.M.T.R. Abeysinghe, A.M.K.L. Alahakoon, M.S.F. Aska, M.H.N. Mishkath, and T.P.S.R. Guruge
3	190	Development and Quality Evaluation of a Finger Millet-Based Pudding for Vegans	C. Kumudhuni, S. Kalina, and S. Tilukshan
4	197	Sugar-Fermenting Bacteria from *Tecoma stans* Floral Nectar: Exploring Their Potential as Natural Food Preservatives in Comparison with Bee Honey	E.W.B.K. Perera, K. Ravi, A.H.A. Samarakkody, T.L. Jayasuriya, U.B.K. Silva, P.A. Sewwandi, and R.B.N. Dharmasiri
5	234	Utilization of Passion Fruit (*Passiflora edulis*) Pulp and Pectin Extracted from Peel in Set Yoghurt Formulation	D.L.D.S. Samarasinghe and C.M. Senanayake

POSTER PRESENTATIONS

MRAE

Mechatronics, Robotics, Automotive, and Autonomous Systems Engineering Track

Date: Friday, 27 November 2026 **Time:** 11:00–12:30 **Venue:** FF05

Track chairs: Dr. Buddhika Amila | Mr. Pahan Oruthota

No.	Paper ID	Title	Authors
1	150	Development of a Drone-Deployed Floating First-Response Payload with Location Tracking and Two-Way Communication for Maritime Rescue	G.G.B.S. Gunawardana, P.C.S.K. Gamage, N.G. Sirimanna, H.Y.R. Atapattu, and R.A.H. Wijerathna

POSTER PRESENTATIONS

SSAT

Sustainable and Smart Agricultural Technologies Track

Date: Friday, 27 November 2026 **Time:** 11:00–12:30 **Venue:** FF05

Track chairs: Dr. Udayagee Kumarasinghe | Dr. Ruvini Abhayapala

No.	Paper ID	Title	Authors
1	46	Optimization of Surface Sterilization and Chitosan Supplemented Medium to Enhance Explant Establishment of *Anthurium andraeanum* cv. 'Black Queen'	D.S. Xavier and G. Thirukkumaran
2	56	TerraLoop: A Bidirectional Closed-Loop Plant-Computer Interface Powered by Edge-ML and Electroculture Actuation for Adaptive Agricultural Ecosystems	D.C.A. Mahaarachchi, C.F. Rodrigo, and A.G.N.A. Karunarathne
3	207	Evaluation of the Adoption Level of Good Agricultural Practices (GAP) and Key Driving Factors in Greenhouse Farming: A Case Study from Kandy District, Sri Lanka	A.M.K.L. Alahakoon, N.M. Hettipathirana, A.G.S.P. Ambagaspitiya, H.K.D.P. Heenatigala, and L. Udayanga

POSTER PRESENTATIONS

TEEM

Technology Innovation, Education, and Engineering Management Track

Date: Friday, 27 November 2026 **Time:** 09:00–10:30 **Venue:** FF05

Track chairs: Dr. Chami Patabadige | Dr. Eranga Jayasekara

No.	Paper ID	Title	Authors
1	152	Aligning Project-Based Learning Task Allocation with VARK Learning Styles: A Quasi-Experimental Study of Statistical Application Competency, Academic Performance, Engagement, Self Efficacy, and Satisfaction among Engineering Technology Undergraduates	W.E. Iroshani, G.N. Jayakody, and R.M. Silva
2	175	Science for Technology Teachers' Perceptions of Using Small-Scale Chemistry Experiments to Promote Activity-Based Learning	M.S. Wickramasinghe, L.P. Subasinghe, P.N.M. Perera, and V.O.J. Priyankara
3	191	Internet-of-Mirrors for Cosmetology Education: A Networked Smart-Mirror Framework for Educational Demonstration and Skin Analysis	A.W.D.N. Weerakoon, A.D.D.S.T. Abeywickrama, S.N.A. Lokuketiya, J.P.K. Kalhara, S.U. Dampage, and S.A.N. Kulasinghe